

Osage County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 5/24/2016

Using the most recent IMPLAN data available (2014) adjusted for 2016, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Osage County economy.¹

These 17 sectors have a total direct output of approximately \$151.4 million and support 1,177.2 jobs in Osage County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Osage County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product		
Direct Effect	1,177.2	23.29%	\$67,833,923.88	24.95%	\$151,448,748.23	55.70%		
Indirect Effect	144.7	2.86%	\$3,237,757.63	1.19%	\$7,846,190.72	2.89%		
Induced Effect	60.0	1.19%	\$4,566,659.96	1.68%	\$8,218,576.23	3.02%		
Total Effect	1,381.8	27.34%	\$75,638,341.47	27.82%	\$167,513,515.18	61.61%		

As shown in the above table, agriculture, food, and food processing sectors support 1,381.8 jobs, or 27.34% of the entire workforce in the county. These sectors provide a total economic contribution of approximately \$167.5 million, roughly 61.61% of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately \$75.6 million, or 27.82% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 27.82% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **812.5 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Osage County.

Top Ten Sectors by Employment					
Sector	Total Employment	Total Output			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	812.5	\$59,593,524.81			
All other crop farming	106.4	\$5,644,095.62			
Support activities for agriculture and forestry	102.2	\$1,869,170.44			
Meat processed from carcasses	83.7	\$40,036,061.24			
Landscape and horticultural services	54.3	\$1,481,256.81			
Grain farming	41.9	\$10,544,753.44			
Oilseed farming	29.7	\$23,017,750.59			
Dairy cattle and milk production	16.9	\$7,703,382.48			
Veterinary services	16.5	\$1,328,058.08			
Wholesale trade	12.6	\$2,102,171.15			

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$59.6 million** to the Osage County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Sectors by Output					
Sector	Total Employment	Total Output			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	812.5	\$59,593,524.81			
Meat processed from carcasses	83.7	\$40,036,061.24			
Oilseed farming	29.7	\$23,017,750.59			
Grain farming	41.9	\$10,544,753.44			
Dairy cattle and milk production	16.9	\$7,703,382.48			
All other crop farming	106.4	\$5,644,095.62			
Owner-occupied dwellings	0.0	\$3,062,509.27			
Wholesale trade	12.6	\$2,102,171.15			
Support activities for agriculture and forestry	102.2	\$1,869,170.44			
Landscape and horticultural services	54.3	\$1,481,256.81			

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Osage County economy.

All Agriculture, Food, and Food Processing Sectors					
Sector	Total Employment	Total Output			
Oilseed farming	29.7	\$23,017,750.59			
Grain farming	41.9	\$10,544,753.44			
Vegetable and melon farming	0.6	\$189,683.86			
Fruit farming	0.2	\$31,415.59			
Tree nut farming	0.0	\$155.65			
Greenhouse, nursery, and floriculture production	0.9	\$207,909.50			
All other crop farming	106.4	\$5,644,095.62			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	812.5	\$59,593,524.81			
Dairy cattle and milk production	16.9	\$7,703,382.48			
Poultry and egg production	0.5	\$443,094.52			
Animal production, except cattle and poultry and eggs	7.2	\$582,822.20			
Meat processed from carcasses	83.7	\$40,036,061.24			
Bread and bakery product, except frozen, manufacturing	5.0	\$518,739.32			
Frozen cakes and other pastries manufacturing	0.3	\$42,053.06			
All other industrial machinery manufacturing	0.4	\$83,991.48			
Veterinary services	16.5	\$1,328,058.08			
Landscape and horticultural services	54.3	\$1,481,256.81			

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Osage County, the retail sector was omitted.